

ABSTRACT

MOTOR MOUNTING AND SEALING ARRANGEMENT FOR A POWER TOOL

A hand held electrical tool includes a gear casing for housing a drive mechanism, which gear casing comprises an entrance. The tool's motor includes an armature shaft having an end at which a pinion is formed for engaging the drive mechanism. A motor plate having a central opening fixes the gear casing with respect to the motor and is mounted around the armature shaft adjacent said pinion end and a shaft bearing is located between the motor plate and the pinion. The pinion and bearing are received in the entrance to the gear casing. A moulded on resilient sealing ring is located around the central opening though the motor plate for sealing between the motor plate and the armature shaft and a moulded on resilient O-ring is located on the face of the motor plate facing the bearing for engaging the outer race of said bearing.

Figure 2.